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NEWS	4	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	6	JUN 25	CA/CAPLUS and USPAT databases updated with IPC reclassification data
NEWS	7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	10	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	11	JUL 28	CA/CAPLUS patent coverage enhanced
NEWS	12	JUL 28	EPFULL enhanced with additional legal status information from the EPOline Register
NEWS	13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	14	JUL 28	STN Viewer performance improved
NEWS	15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	16	AUG 13	CA/CAPLUS enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	18	AUG 15	CAPLUS currency for Korean patents enhanced
NEWS	19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS	20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS	21	SEP 25	CA/CAPLUS current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS	22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced
NEWS	23	SEP 29	IFICLS enhanced with new super search field
NEWS	24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS	25	SEP 30	CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents
NEWS	26	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS	27	OCT 07	Multiple databases enhanced for more flexible patent number searching

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
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FILE COVERS 1907 - 15 Oct 2008 VOL 149 ISS 16
FILE LAST UPDATED: 14 Oct 2008 (20081014/ED)

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Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> hydroxylamine
L1 5 HYDOXYLAMINE

=> hydroxylamine
36046 HYDROXYLAMINE
3194 HYDROXYLAMINES
L2 37318 HYDROXYLAMINE
(HYDROXYLAMINE OR HYDROXYLAMINES)

```

=> inhibitor
    593482 INHIBITOR
    586332 INHIBITORS
L3    920661 INHIBITOR
      (INHIBITOR OR INHIBITORS)

=> 12(1)13
L4    2177 L2(L)L3

=> cyclic
    344068 CYCLIC
    356 CYCLICS
L5    344209 CYCLIC
      (CYCLIC OR CYCLICS)

=> 14(1)15
L6    59 L4(L)L5

=> d 16 49-59 ti

L6    ANSWER 49 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Suicide-inhibitory bifunctionally linked substrates (SIBLINKS) as
      phospholipase A2 inhibitors. Mechanistic implications

L6    ANSWER 50 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Preparation of 5-(aminoalkyl)-1,2,4-oxadiazole salts as ulcer inhibitors
      and drug intermediates

L6    ANSWER 51 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Cyclic GMP and cell death in rat cerebellar slices

L6    ANSWER 52 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Far-red stimulated long-lived luminescence from barley protoplasts

L6    ANSWER 53 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Histamine stimulation of canine colonic epithelium: potentiation by
      hydroxylamines

L6    ANSWER 54 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Antitumor platinum complexes

L6    ANSWER 55 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Does cyclic GMP mediate amylase release from mouse parotid acini?

L6    ANSWER 56 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Activation of guanylate cyclase from rat liver and other tissues by sodium
      azide

L6    ANSWER 57 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Amine functions of reduced basicity. Hypoglycemic and natriuretic
       $\alpha$ -alkoxybenzylamidoximes, amidines, and cycloamidines

L6    ANSWER 58 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Cyclic nitroxides

L6    ANSWER 59 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
TI    Polymers and copolymers of acrylonitrile

=> d 16 59 ti fbib abs

L6    ANSWER 59 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

```

TI Polymers and copolymers of acrylonitrile
 AN 1965:472587 CAPLUS
 DN 63:72587
 OREF 63:13444b-d
 TI Polymers and copolymers of acrylonitrile
 PA Toyo Rayon Co., Ltd.
 SO 9 pp.
 DT Patent
 LA Unavailable
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	NL 6412193		19650422	NL 1964-12193	19641020
				JP	19631021
	BE 654622			BE	
	FR 1412167			FR	

AB The polymerization of acrylonitrile in Me2SO or ethylene carbonate is carried out in the presence of octanoyl peroxide or tert-butyl peroxyphthalate as catalyst, suitably in the absence of O, and with the addition of hydroxylamine salts as discoloration inhibitors (0.05-5 g./l. of reaction mixture), optionally with H2SO4 (0.01-1 g./l. of reaction mixture). As salt, the chloride, sulfate, oxalate, phosphate, and (or) acetate of hydroxylamine may be used. Up to 15% of another vinyl monomer (e.g. vinyl acetate) may be present. The polymerization is carried out in a short time to a higher polymerization degree and the yellowing of the product obtained is decreased. Thus, acrylonitrile 19, Me acrylate 1, Na methallylsulfonate 0.3, hydroxylamine sulfate 0.1, EDTA 0.05 (to prevent discoloration by metals), Me2SO 80, and octanoyl peroxide 0.2 part were heated at 45° for 30 hrs. The product had a d.p. of 93%, an intrinsic viscosity of 1.55, and a color index value of 2.5. After defoaming, the polymer solution was spun in a 38% Me2SO solution at 30° through a spinneret (7000 holes of 0.08-mm. diameter) to give white filaments with a good luster.

=> polymer?

2141793 POLYMER?
 93972 POLYMD
 93972 POLYMD
 (POLYMD)

36504 POLYMG
 374598 POLYMN
 10076 POLYMNS
 375940 POLYMN

(POLYMN OR POLYMNS)

L7 2218805 POLYMER?
 (POLYMER? OR POLYMD OR POLYMG OR POLYMN)

=> 16 and 1o7

4 LO7
 L8 0 L6 AND LO7

=> 16 and 17

L9 5 L6 AND L7

=> d 19 1-5 ti

L9 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Use of cyclic hydroxylamines as polymerization inhibitors

L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

TI Method for inhibiting polymerization of
 α,β -unsaturated carboxylic acids

L9 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Vinyl monomer polymerization inhibition using hindered
 hydroxylamines

L9 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Cyclic nitroxides

L9 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Polymers and copolymers of acrylonitrile

=>

=> d 19 1-4 ti fbib abs

L9 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Use of cyclic hydroxylamines as polymerization
 inhibitors
 AN 2003:1006927 CAPLUS
 DN 140:43124
 TI Use of cyclic hydroxylamines as polymerization
 inhibitors
 IN Philips, Emyr; Loyns, Colin
 PA A H Marks & Company Limited, UK
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003106390	A1	20031224	WO 2003-GB2367	20030530
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
				GB 2002-13480	A 20020613
				GB 2002-14093	A 20020619
	AU 2003244750	A1	20031231	AU 2003-244750	20030530
				GB 2002-13480	A 20020613
				GB 2002-14093	A 20020619
				WO 2003-GB2367	W 20030530
	EP 1511704	A1	20050309	EP 2003-738235	20030530
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
				GB 2002-13480	A 20020613
				GB 2002-14093	A 20020619
				WO 2003-GB2367	W 20030530
	JP 2005529223	T	20050929	JP 2004-513226	20030530
				GB 2002-13480	A 20020613
				GB 2002-14093	A 20020619
				WO 2003-GB2367	W 20030530
	US 20060167244	A1	20060727	US 2005-516979	20050810

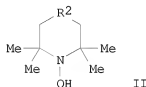
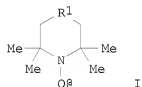
GB 2002-13480 A 20020613
 GB 2002-14093 A 20020619
 WO 2003-GB2367 W 20030530

OS MARPAT 140:43124
 AB A polymerization inhibitor comprising a non-hindered cyclic hydroxylamine (e.g. 1-hydroxypiperidine) either alone or in combination with an addnl. inhibitor is described for a variety of monomers (e.g., styrene).
 RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Method for inhibiting polymerization of α,β -unsaturated carboxylic acids
 AN 2002:636470 CAPLUS
 DN 137:185237
 TI Method for inhibiting polymerization of α,β -unsaturated carboxylic acids
 IN Koizumi, Atsushi; Ogawa, Akira; Hino, Tomomichi
 PA Mitsubishi Rayon Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002234858	A	20020823	JP 2001-32226 JP 2001-32226	20010208 20010208

GI



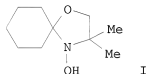
AB Polymerization of the compds. is inhibited by coexisting N-oxyl compds. I (R1 = CH2, CHOH, C:O, CHOCOMe, CHNHCOMe, CHOMe) and hydroxylamines II (R2 = CH2, CHOH, C:O, CHOCOMe, CHNHCOMe, CHOMe) with α,β -unsatd. carboxylic acids and/or their esters. Methacrylic acid containing 20 ppm 2,2,6,6-tetramethyl-4-hydroxypiperidine-1-oxyl and 50 ppm 1,4-dihydroxy-2,2,6,6-tetramethylpiperidine was heated at 120°, resulting in polymerization starting after 28 h.

L9 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Vinyl monomer polymerization inhibition using hindered hydroxylamines
 AN 2000:175883 CAPLUS
 DN 132:208292
 TI Vinyl monomer polymerization inhibition using hindered hydroxylamines
 IN Roof, Glenn L.; Shahid, Muslim
 PA Baker Hughes Incorporated, USA
 SO PCT Int. Appl., 21 pp.
 CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000014177	A1	20000316	WO 1999-US20598	19990908
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2343022	A1	20000316	US 1998-99634P CA 1999-2343022 US 1998-99634P WO 1999-US20598 AU 1999-58170 US 1998-99634P WO 1999-US20598	P 19980909 19990908 P 19980909 W 19990908 19990908 P 19980909 W 19990908
	AU 9958170	A1	20000327	EP 1999-945595	19990908
	EP 1114119	A1	20010711	US 1998-99634P WO 1999-US20598 US 1999-391970 US 1998-99634P JP 2000-568926 US 1998-99634P WO 1999-US20598 TW 1999-88115576 US 1998-99634P NO 2001-1016 US 1998-99634P WO 1999-US20598	P 19980909 W 19990908 19990908 P 19980909 19990908 P 19980909 W 19990908 19990929 P 19980909 20010227 P 19980909 W 19990908
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	US 6342647	B1	20020129		
	JP 2002524471	T	20020806		
	TW 534923	B	20030601		
	NO 2001001016	A	20010503		

OS MARPAT 132:208292
GI



AB It has been discovered that the polymerization of vinyl aromatic compds., such as styrene, may be inhibited by the addition of a composition that contains a hindered hydroxylamine, and, optionally, a synergist together with the hindered hydroxylamine. In one embodiment of the invention, the hindered N,N-disubstituted hydroxylamine has the formula [(R1R2R3)C]2NOH where R1, R2, and R3 are independently selected from the group consisting of hydrogen, straight, branched or cyclic alkyl, aryl, aralkyl, and alkaryl moieties; where no more than two of R1, R2, and R3 on each C can be hydrogen at a time; where one or more of R1, R2, and R3 on one C may be joined to a R1, R2, and R3 on the other C to form a cyclic moiety selected from the group consisting of alkylene, and aralkylene moieties; where any two of the R1, R2, and R3 on any one C may be joined together to form a cycloalkyl; where

any of the above definitions of R1, R2, and R3 may contain one or more heteroatoms selected from the group consisting of N, O and S; and where the total number of carbon atoms in the hindered N,N-disubstituted hydroxylamine ranges from 6 to 70. Optional synergists may include alkyl-substituted hydroxyarenes such as 2,5-di-tert-butylhydroquinone, and hydrogen transfer agents such as 1,2,3,4-tetrahydronaphthalene; and the like, and mixts. thereof. Thus, distilled styrene was heated at 118° for 90 min with an inhibitor composition comprising I (preparation given) 125, 2,5-di-tert-butylhydroquinone 125, and 1,2,3,4-tetrahydronaphthalene 125 ppm giving 1900 mg polystyrene/100 mL styrene, compared with 35,000 mg polystyrene without the inhibitor composition

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
TI Cyclic nitroxides
AN 1968:87161 CAPLUS
DN 68:87161
OREF 68:16799a,16802a
TI Cyclic nitroxides
IN Feldman, Allan M.; Hoffmann, Arthur Kentaro
PA American Cyanamid Co.
SO U.S., 4 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3334103	----	19670801	US 1965-457899	19650426
GI	For diagram(s), see printed CA Issue.				
AB	<p>The title compds. were prepared by the reaction of cyclic amines with acyl peroxide, followed by alkaline hydrolysis and oxidation of the intermediate acyl hydroxylamine. Thus, stable free radical cyclic nitroxides of the general formula I were prepared, where Z is >CH2 or a bond line. For example, a mixture of 60.5 g. Bz2O2 in 1500 ml. Et2O and 71.5 g. 2,2,6,6-tetramethylpiperidine was refluxed, then cooled, filtered, and saturated with dry HCl. The solid was decomposed with H2O, the product extracted with Et2O, the Et2O evaporated, and the residue refluxed overnight with 50 g. NaOH in 500 ml. MeOH and 50 ml. H2O. Addition of 1 l. H2O, extraction with Et2O, drying, and treatment with HCl gave the hydroxylamine hydrochloride which was converted to the hydroxylamine by treatment with 50% aqueous NaOH and extraction with pentane. Evaporation of pentane in a stream of N and oxidation in the presence of base yielded I (Z = >CH2), which was stored under N. Similarly prepared was I (Z = bond line). The compds. prepared are useful as polymerization inhibitors, antiknock agents, antioxidants for rubber, traps for reactive free radicals, and paramagnetic standards for E.S.R. spectrometry.</p>				

=>

=> file reg		
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	ENTRY	SESSION
FULL ESTIMATED COST	47.91	48.12
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-4.00	-4.00

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DICTIONARY FILE UPDATES: 13 OCT 2008 HIGHEST RN 1060965-68-5

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experimental property data in the original document. For information
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<http://www.cas.org/support/stngen/stdoc/properties.html>

=> e N-hydroxypyrrolidine/cn

E1	1	N-HYDROXYPYRIDINETHIONE-SODIUM FLUOROSILICATE MIXT./CN
E2	1	N-HYDROXYPYRROLE/CN
E3	1 -->	N-HYDROXYPYRROLIDINE/CN
E4	1	N-HYDROXYRILUZOLE/CN
E5	1	N-HYDROXYROBUSTINE/CN
E6	1	N-HYDROXYSACCHARIN/CN
E7	1	N-HYDROXYSARCOSINE/CN
E8	1	N-HYDROXYSERTRALINE/CN
E9	1	N-HYDROXYSERTRALINE GLUCURONIDE/CN
E10	1	N-HYDROXYSYLAUREA/CN
E11	1	N-HYDROXYSYLAUREA, CONJUGATE MONOACID/CN
E12	1	N-HYDROXYSOLASODINE/CN

=> e3

L10 1 N-HYDROXYPYRROLIDINE/CN

=> d l10

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 5904-62-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyrrolidine, 1-hydroxy- (CA INDEX NAME)

OTHER NAMES:

CN 1-Hydroxypyrrolidine

CN 1-Pyrrolidinol

CN N-Hydroxypyrrolidine

CN NSC 71874

MF C4 H9 N O

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CHEMLIST, TOXCENTER, USPATFULL, USPATOLD

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

51 REFERENCES IN FILE CA (1907 TO DATE)
 51 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.61	55.73
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.00

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FILE COVERS 1907 - 15 Oct 2008 VOL 149 ISS 16
 FILE LAST UPDATED: 14 Oct 2008 (20081014/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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=> d his

(FILE 'HOME' ENTERED AT 05:34:16 ON 15 OCT 2008)

FILE 'CAPLUS' ENTERED AT 05:35:02 ON 15 OCT 2008

L1 5 HYDOXYLAMINE
 L2 37318 HYDOXYLAMINE
 L3 920661 INHIBITOR
 L4 2177 L2(L)L3
 L5 344209 CYCLIC

L6 59 L4(L)L5
 L7 2218805 POLYMER?
 L8 0 L6 AND LO7
 L9 5 L6 AND L7

FILE 'REGISTRY' ENTERED AT 05:53:45 ON 15 OCT 2008
 E N-HYDROXYPYRROLIDINE/CN

L10 1 E3

FILE 'CAPLUS' ENTERED AT 05:54:35 ON 15 OCT 2008

=> l10 and l13

51 L10
 L11 1 L10 AND L3

=> d l11

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2003:1006927 CAPLUS
 DN 140:43124
 TI Use of cyclic hydroxylamines as polymerization inhibitors
 IN Philips, Emyr; Loynes, Colin
 PA A H Marks & Company Limited, UK
 SO PCT Int. Appl., 19 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003106390	A1	20031224	WO 2003-GB2367	20030530
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003244750	A1	20031231	AU 2003-244750	20030530
	EP 1511704	A1	20050309	EP 2003-738235	20030530
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2005529223	T	20050929	JP 2004-513226	20030530
	US 20060167244	A1	20060727	US 2005-516979	20050810
FRAI	GB 2002-13480	A	20020613		
	GB 2002-14093	A	20020619		
	WO 2003-GB2367	W	20030530		
OS	MARPAT 140:43124				
RE.CNT 17	THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT				

=> file reg

COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
3.13	58.86

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION

CA SUBSCRIBER PRICE

0.00

-4.00

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DICTIONARY FILE UPDATES: 13 OCT 2008 HIGHEST RN 1060965-68-5

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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e N-hydroxypiperidine/cn

E1 1 N-HYDROXYPHthalonimide/CN
E2 1 N-HYDROXYPIPERAZINE/CN
E3 1 --> N-HYDROXYPIPERIDINE/CN
E4 1 N-HYDROXYPIVALANILIDE/CN
E5 1 N-HYDROXYPROPANIMIDAMIDE/CN
E6 1 N-HYDROXYPROPIONAMIDINE/CN
E7 1 N-HYDROXYPROPOXUR/CN
E8 1 N-HYDROXYPROPYL-6-ETHYLCAPROLACTAM/CN
E9 1 N-HYDROXYPROPYL-6-ISOPROPYLCAPROLACTAM/CN
E10 1 N-HYDROXYPROPYL-6-METHYLCAPROLACTAM/CN
E11 1 N-HYDROXYPROPYL-O-BENZYLCHITOSAN/CN
E12 1 N-HYDROXYPROPYLACRYLAMIDE-STYRENE COPOLYMER/CN

=> e3

L12 1 N-HYDROXYPIPERIDINE/CN

=> d l12

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 4801-58-5 REGISTRY

ED Entered STN: 16 Nov 1984

CN Piperidine, 1-hydroxy- (CA INDEX NAME)

OTHER NAMES:

CN 1-Hydroxypiperidine

CN 1-Piperidinol

CN N-Hydroxypiperidine

MF C5 H11 N O

CI COM

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, MEDLINE, RTECS*,
SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

155 REFERENCES IN FILE CA (1907 TO DATE)
 8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 155 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
7.61	66.47

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-4.00

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FILE COVERS 1907 - 15 Oct 2008 VOL 149 ISS 16
 FILE LAST UPDATED: 14 Oct 2008 (20081014/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> l12
 L13 155 L12

=> d his

(FILE 'HOME' ENTERED AT 05:34:16 ON 15 OCT 2008)

FILE 'CAPLUS' ENTERED AT 05:35:02 ON 15 OCT 2008
L1 5 HYDOXYLAMINE
L2 37318 HYDOXYLAMINE
L3 920661 INHIBITOR
L4 2177 L2(L)L3
L5 344209 CYCLIC
L6 59 L4(L)L5
L7 2218805 POLYMER?
L8 0 L6 AND L07
L9 5 L6 AND L7

FILE 'REGISTRY' ENTERED AT 05:53:45 ON 15 OCT 2008
E N-HYDROXYPYRROLIDINE/CN
L10 1 E3

FILE 'CAPLUS' ENTERED AT 05:54:35 ON 15 OCT 2008
L11 1 L10 AND L3

FILE 'REGISTRY' ENTERED AT 05:57:04 ON 15 OCT 2008
E N-HYDROXYPIPERIDINE/CN
L12 1 E3

FILE 'CAPLUS' ENTERED AT 05:57:45 ON 15 OCT 2008
L13 155 L12

=> 13 and 113
L14 17 L3 AND L13

=> 13(1)113
L15 11 L3(L)L13

=> d 115 1-11 ti

L15 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Potent and Selective Nonpeptidic Inhibitors of Procollagen C-Proteinase

L15 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Preparation of N-phenyl-nicotinamide derivatives as hedgehog signaling pathway inhibitors

L15 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Preparation of phosphonate analogs of HIV protease inhibitors and methods for identifying anti-HIV therapeutic compounds

L15 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Preparation of phosphonate analogs of HIV protease inhibitors and methods for identifying anti-HIV therapeutic compounds

L15 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Use of cyclic hydroxylamines as polymerization inhibitors

L15 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Preparation of phosphonate analogs of HIV protease inhibitors and methods for identifying anti-HIV therapeutic compounds

L15 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Preparation of phosphonate analogs of HIV protease inhibitors with improved cellular accumulation properties

L15 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Preparation of 3-oxa(di)azolypropanohydroxamic acids as procollagen c-proteinase inhibitors for treatment of wounds

L15 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI New Isoxazolopyrimidinones and their use.

L15 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Polymerization inhibitor compositions for ethylenically unsaturated monomers comprising reducing agents, compounds containing metals with multiple oxidation states, and optionally proton acids

L15 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Inhibiting popcorn polymer formation in butadiene-styrene copolymerization

=> d 115 10,11 ti fbib

L15 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Polymerization inhibitor compositions for ethylenically unsaturated monomers comprising reducing agents, compounds containing metals with multiple oxidation states, and optionally proton acids

AN 2000:175882 CAPLUS
DN 132:208291

TI Polymerization inhibitor compositions for ethylenically unsaturated monomers comprising reducing agents, compounds containing metals with multiple oxidation states, and optionally proton acids

IN Bushby, Richard; Lord, Nigel
PA A.H. Marks and Company Limited, UK
SO PCT Int. Appl., 19 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000014175	A1	20000316	WO 1999-GB2978	19990908
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9957522	A1	20000327	GB 1998-19600 AU 1999-57522 GB 1998-19600 WO 1999-GB2978	A 19980908 19990908 A 19980908 W 19990908

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN
TI Inhibiting popcorn polymer formation in butadiene-styrene copolymerization
AN 1966:508938 CAPLUS

DN 65:108938

OREF 65:20334h,20335a

TI Inhibiting popcorn polymer formation in butadiene-styrene copolymerization
IN McCoy, George; Whiton, Alfred C.; Haines, Paul G.

PA Pennsalt Chemicals Corp.

SO 1 p.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 3265751		19660809	US 1964-419199	19641217
				US	19641217

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

15.50

81.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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-4.00

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DICTIONARY FILE UPDATES: 13 OCT 2008 HIGHEST RN 1060965-68-5

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<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10516979\10516979 genus claim 2.str



```

chain nodes :
5
ring nodes :
1 2 3 4
chain bonds :
1-5
ring bonds :
1-2 1-4 2-3 3-4
exact/norm bonds :
1-2 1-4 1-5 2-3 3-4

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G1:NH,O,S

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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:CLASS

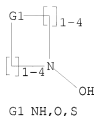
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L16 STRUCTURE UPLOADED

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=> d l16
L16 HAS NO ANSWERS
L16 STR

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Structure attributes must be viewed using STN Express query preparation.

=> search l16 sss sam

SAMPLE SEARCH INITIATED 06:09:23 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 11288 TO ITERATE

17.7% PROCESSED 2000 ITERATIONS

23 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 219393 TO 232127

PROJECTED ANSWERS: 1913 TO 3279

L17 23 SEA SSS SAM L16

=> d scan

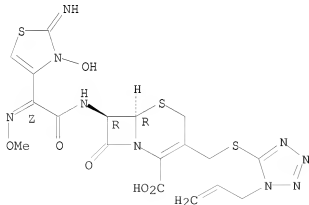
L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid,
7-[[[(2,3-dihydro-3-hydroxy-2-imino-4-thiazolyl) (methoxyimino)acetyl]amino]-
8-oxo-3-[[[1-(2-propenyl)-1H-tetrazol-5-yl]thio]methyl]-,
[6R-[6 α ,7 β (Z)]]- (9CI)

MF C18 H19 N9 O6 S3

Absolute stereochemistry.

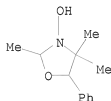
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

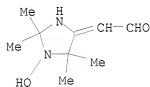
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Oxazolidine, 3-hydroxy-2,4,4-trimethyl-5-phenyl-
MF C12 H17 N O2



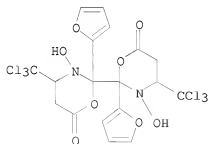
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Acetaldehyde, 2-(1-hydroxy-2,2,5,5-tetramethyl-4-imidazolidinylidene)-
MF C9 H16 N2 O2

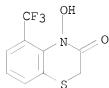


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN [2,2'-Bi-6H-1,3-oxazine]-6,6'-dione,
2,2'-di-2-furyloctahydro-3,3'-dihydroxy-4,4'-bis(trichloromethyl)- (8CI)
MF C18 H14 Cl6 N2 O8

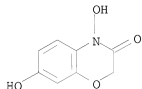


L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2H-1,4-Benzothiazin-3(4H)-one, 4-hydroxy-5-(trifluoromethyl)-
 MF C9 H6 F3 N O2 S



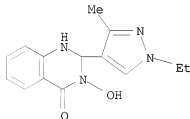
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2H-1,4-Benzoxazin-3(4H)-one, 4,7-dihydroxy-
 MF C8 H7 N O4



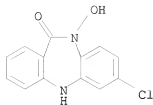
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 4(1H)-Quinazolinone, 2-(1-ethyl-3-methyl-1H-pyrazol-4-yl)-2,3-dihydro-3-hydroxy-
 MF C14 H16 N4 O2



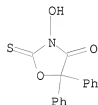
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 11H-Dibenzo[b,e][1,4]diazepin-11-one, 7-chloro-5,10-dihydro-10-hydroxy-
 MF C13 H9 Cl N2 O2



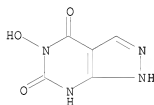
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on SIN
 IN 4-Oxazolidinone, 3-hydroxy-5,5-diphenyl-2-thio-
 MF C15 H11 N O3 S



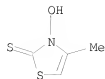
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on SIN
 IN 1H-Pyrazolo[3,4-d]pyrimidine-4,6(5H,7H)-dione, 5-hydroxy-
 MF C5 H4 N4 O3



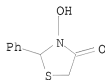
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on SIN
 IN 2(3H)-Thiazolethione, 3-hydroxy-4-methyl-, potassium salt (1:1)
 MF C4 H5 N O S2 . K



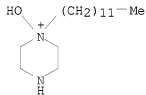
● K

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 4-Thiazolidinone, 3-hydroxy-2-phenyl-
MF C9 H9 N O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Piperazinium, 1-dodecyl-1-hydroxy-, chloride, hydrochloride (1:1:1)
MF C16 H35 N2 O . Cl H . Cl

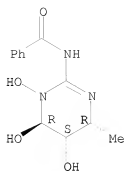


● Cl⁻

● HCl

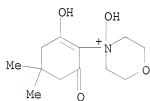
L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Benzamide, N-[(4R,5S,6R)-1,4,5,6-tetrahydro-1,5,6-trihydroxy-4-methyl-2-pyrimidinyl]-
MF C12 H15 N3 O4

Absolute stereochemistry.

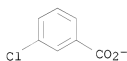


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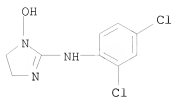
L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Morpholinium, 4-hydroxy-4-(2-hydroxy-4,4-dimethyl-6-oxo-1-cyclohexen-1-yl)-
 , 3-chlorobenzoate (1:1)
 MF C12 H20 N O4 . C7 H4 Cl O2
 CM 1



CM 2

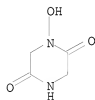


L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 1H-Imidazol-2-amine, N-(2,4-dichlorophenyl)-4,5-dihydro-1-hydroxy-,
 monohydrobromide (9CI)
 MF C9 H9 Cl2 N3 O . Br H



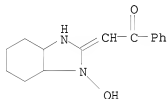
● HBr

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2,5-Piperazinedione, 1-hydroxy-
 MF C4 H6 N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Ethanone, 2-(octahydro-1-hydroxy-2H-benzimidazol-2-ylidene)-1-phenyl-
 MF C15 H18 N2 O2



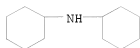
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Morpholine, 4-hydroxy-, compd. with dicyclohexylamine (1:1) (8CI)
 MF C12 H23 N . C4 H9 N O2

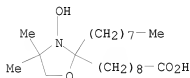
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CM 2

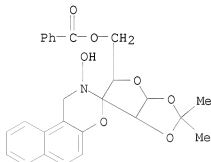


L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2-Oxazolidinenonanoic acid, 3-hydroxy-4,4-dimethyl-2-octyl-
 MF C22 H43 N O4
 CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L17 23 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Spiro[furo[2,3-d]-1,3-dioxole-6(5H),3'-[3H]naphth[1,2-e][1,3]oxazine]-5-
 methanol, 1',2',3a,6a-tetrahydro-2'-hydroxy-2,2-dimethyl-,
 α -benzoate, (3'S,3aR,5R,6aR)- (9CI)
 MF C26 H25 N O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> search l16 sss full
FULL SEARCH INITIATED 06:10:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 226105 TO ITERATE

100.0% PROCESSED 226105 ITERATIONS 2547 ANSWERS
SEARCH TIME: 00.00.01

L18 2547 SEA SSS FUL L16

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FILE COVERS 1907 - 15 Oct 2008 VOL 149 ISS 16
FILE LAST UPDATED: 14 Oct 2008 (20081014/ED)

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=> l18
L19 1639 L18

=> d his

(FILE 'HOME' ENTERED AT 05:34:16 ON 15 OCT 2008)

FILE 'CAPLUS' ENTERED AT 05:35:02 ON 15 OCT 2008

L1 5 HYDOXYLAMINE
L2 37318 HYDROXYLAMINE
L3 920661 INHIBITOR
L4 2177 L2(L)L3
L5 344209 CYCLIC
L6 59 L4(L)L5

L7 2218805 POLYMER?
L8 0 L6 AND L07
L9 5 L6 AND L7

FILE 'REGISTRY' ENTERED AT 05:53:45 ON 15 OCT 2008
E N-HYDROXYPYRROLIDINE/CN
L10 1 E3

FILE 'CAPLUS' ENTERED AT 05:54:35 ON 15 OCT 2008
L11 1 L10 AND L3

FILE 'REGISTRY' ENTERED AT 05:57:04 ON 15 OCT 2008
E N-HYDROXYPYPERIDINE/CN
L12 1 E3

FILE 'CAPLUS' ENTERED AT 05:57:45 ON 15 OCT 2008
L13 155 L12
L14 17 L3 AND L13
L15 11 L3(L)L13

FILE 'REGISTRY' ENTERED AT 06:08:55 ON 15 OCT 2008
L16 STRUCTURE UPLOADED
L17 23 SEARCH L16 SSS SAM
L18 2547 SEARCH L16 SSS FULL
SAVE TEMP L18 MASTERSET/A

FILE 'CAPLUS' ENTERED AT 06:10:43 ON 15 OCT 2008
L19 1639 L18

=> 13(1)119
L20 75 L3(L)L19

=> 17 and 120
L21 9 L7 AND L20

=> d 121 1-9 ti

L21 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
TI Water-thinned inks and ink-jet recording method using them for forming
images with excellent light, oxidative gas, and ink spread resistance

L21 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
TI Use of cyclic hydroxylamines as polymerization inhibitors

L21 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
TI Vinyl monomer polymerization inhibition using hindered
hydroxylamines

L21 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
TI Identification of N-hydroxamic acid and N-hydroxyimide compounds that
inhibit the influenza virus polymerase

L21 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
TI Inhibiting effect of radical polymerization of vinyl monomers.
(XV). Behavior of some substituted hydroxylamines in the copolymerization
of styrene with acrylonitrile

L21 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
TI Inhibiting effect of radical polymerization for vinyl monomers.
XI. Studies on the inhibition and their chain transfer constants of
substituted hydroxylamine compounds in bulk polymerization of
vinyl acetate and acrylonitrile

L21 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Inhibiting effects of radical polymerization of vinyl monomers.
 X. Studies on the inhibition and its mechanism of hydroxylamines
 compounds in free radical polymerization of styrene

L21 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 TI An ESR study of nitroxide radicals produced in the radical
 polymerization of vinyl monomer

L21 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Inhibiting popcorn polymer formation in butadiene-styrene
 copolymerization

=> d 121 3-9 ti fbib abs

L21 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Vinyl monomer polymerization inhibition using hindered
 hydroxylamines

AN 2000:175883 CAPLUS
 DN 132:208292

TI Vinyl monomer polymerization inhibition using hindered
 hydroxylamines

IN Roof, Glenn L.; Shahid, Muslim

PA Baker Hughes Incorporated, USA

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

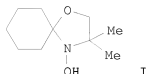
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000014177	A1	20000316	WO 1999-US20598	19990908
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2343022	A1	20000316	US 1998-99634P	P 19980909
				CA 1999-2343022	19990908
				US 1998-99634P	P 19980909
	AU 9958170	A1	20000327	WO 1999-US20598	W 19990908
				AU 1999-58170	19990908
				US 1998-99634P	P 19980909
				WO 1999-US20598	W 19990908
	EP 1114119	A1	20010711	EP 1999-945595	19990908
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
				US 1998-99634P	P 19980909
	US 6342647	B1	20020129	WO 1999-US20598	W 19990908
				US 1999-391970	19990908
				US 1998-99634P	P 19980909
	JP 2002524471	T	20020806	JP 2000-568926	19990908
				US 1998-99634P	P 19980909
				WO 1999-US20598	W 19990908
	TW 534923	B	20030601	TW 1999-88115576	19990929
				US 1998-99634P	P 19980909
	NO 2001001016	A	20010503	NO 2001-1016	20010227

OS MARPAT 132:208292
GI



AB It has been discovered that the polymerization of vinyl aromatic compds., such as styrene, may be inhibited by the addition of a composition that contains a hindered hydroxylamine, and, optionally, a synergist together with the hindered hydroxylamine. In one embodiment of the invention, the hindered N,N-disubstituted hydroxylamine has the formula [(R₁R₂R₃)C]₂NOH where R₁, R₂, and R₃ are independently selected from the group consisting of hydrogen, straight, branched or cyclic alkyl, aryl, aralkyl, and alkaryl moieties; where no more than two of R₁, R₂, and R₃ on each C can be hydrogen at a time; where one or more of R₁, R₂, and R₃ on one C may be joined to a R₁, R₂, and R₃ on the other C to form a cyclic moiety selected from the group consisting of alkylene, and aralkylene moieties; where any two of the R₁, R₂, and R₃ on any one C may be joined together to form a cycloalkyl; where any of the above definitions of R₁, R₂, and R₃ may contain one or more heteroatoms selected from the group consisting of N, O and S; and where the total number of carbon atoms in the hindered N,N-disubstituted hydroxylamine ranges from 6 to 70. Optional synergists may include alkyl-substituted hydroxyarenes such as 2,5-di-tert-butylhydroquinone, and hydrogen transfer agents such as 1,2,3,4-tetrahydronaphthalene; and the like, and mixts. thereof. Thus, distilled styrene was heated at 118° for 90 min with an inhibitor composition comprising I (preparation given) 125, 2,5-di-tert-butylhydroquinone 125, and 1,2,3,4-tetrahydronaphthalene 125 ppm giving 1900 mg polystyrene/100 mL styrene, compared with 35,000 mg polystyrene without the inhibitor composition

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
TI Identification of N-hydroxamic acid and N-hydroxyimide compounds that inhibit the influenza virus polymerase
AN 1996:706454 CAPLUS
DN 126:98827
OREF 126:18909a,18912a
TI Identification of N-hydroxamic acid and N-hydroxyimide compounds that inhibit the influenza virus polymerase
AU Cianci, C.; Chung, T. D. Y.; Meanwell, N.; Putz, H.; Hagen, M.; Colunno, R. J.; Krystal, M.
CS Dep. Virology and Chem., Bristol-Myers Squibb Pharmaceutical Res. Inst., Wallingford, CT, 06492, USA
SO Antiviral Chemistry & Chemotherapy (1996), 7(6), 353-360
CODEN: ACCHEH; ISSN: 0956-3202
PB Blackwell
DT Journal
LA English
AB The RNA-dependent RNA polymerase of influenza virus transcribes mRNA through a unique cap-scavenging mechanism. The polymerase

binds to the cap structure at the 5' ends of host mRNAs, which are then cleaved and used as primers for viral mRNA synthesis. In an effort to discover antiviral compds. against this target, an in-vitro transcription assay was utilized to screen a proprietary chemical collection. Results of this screening effort identified an N-hydroxamic acid structure as an inhibitor of the capped RNA-dependent transcriptase activity. Subsequent sub-structure searching and screening based upon this pharmacophore identified two related N-hydroxy-imide compds. as specific inhibits. These compds. were found to inhibit the cap-scavenging mechanism through inhibition of the endonuclease function of the polymerase.

L21 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

TI Inhibiting effect of radical polymerization of vinyl monomers.
(XV). Behavior of some substituted hydroxylamines in the copolymerization of styrene with acrylonitrile

AN 1993:255417 CAPLUS

DN 118:255417

OREF 118:44413a,44416a

TI Inhibiting effect of radical polymerization of vinyl monomers.
(XV). Behavior of some substituted hydroxylamines in the copolymerization of styrene with acrylonitrile

AU Zhang, Ziyi; Li, Zhaolong; Yang, Maolin

CS Dep. Chem., Lanzhou Univ., Lanzhou, 730000, Peop. Rep. China

SO Gaodeng Xuexiao Huaxue Xuebao (1992), 13(10), 1319-22

CODEN: KTHPDM; ISSN: 0251-0790

DT Journal

LA Chinese

AB Radical polymerization of styrene (I) and acrylonitrile (II) was carried out in the presence of N,N'-diethylhydroxylamine (III), N,N'-diisopropylhydroxylamine (IV), and 4-hydroxymorpholine (V) at 60° with benzoyl peroxide catalyst. They were all very efficient inhibitors, following the efficiency order of III > V > IV. The reactivity ratio r1 and r2 for I and II, resp., were different for different inhibitors. Using 500 ppm hydroxylamines, r2 increased, but r1 decreased and the azeotropic point of the polymerization decreased from 0.62 to 0.55, 0.54, and 0.57 for I, II, and III, resp., indicating the increasing tendency toward alternating copolym.

L21 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

TI Inhibiting effect of radical polymerization for vinyl monomers.
XI. Studies on the inhibition and their chain transfer constants of substituted hydroxylamine compounds in bulk polymerization of vinyl acetate and acrylonitrile

AN 1991:164864 CAPLUS

DN 114:164864

OREF 114:27909a,27912a

TI Inhibiting effect of radical polymerization for vinyl monomers.
XI. Studies on the inhibition and their chain transfer constants of substituted hydroxylamine compounds in bulk polymerization of vinyl acetate and acrylonitrile

AU Zhang, Ziyi; Li, Zhaolong; Bai, Yanlong; Lu, Zhizhen

CS Dep. Chem., Lanzhou Univ., Lanzhou, Peop. Rep. China

SO Gaofenzi Xuebao (1990), (2), 239-43

CODEN: GAXUE9; ISSN: 1000-3304

DT Journal

LA Chinese

AB The effect of (2.38-2.86) + 10-2 M AIBN and 8.8 + 10-2 to 6.1 + 10-4 M of substituted hydroxylamines such as Et2NOH, iso-Pr2NOH, N-hydroxymorpholine, 2,2,6,6-tetramethyl-4-hydroxylpiperidinehydroxylamine, PhNHOH, and Ph2NOH on bulk polym. of vinyl acetate (I) and acrylonitrile (II) at 60° was studied. The polymerization inhibiting effect of these hydroxylamines was more

pronounced for I than for II. The chain-transfer consts. (Cs) of these compds. in bulk polymerization of I and II were calculated by the Mayo equation. The Cs value for I in bulk polymerization was greater than that for II. These differences were dependent on the structure of the hydroxylamines and the derived nitroxide radical and the electron-donating or electron-accepting properties of the monomers and radicals formed.

L21 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

TI Inhibiting effects of radical polymerization of vinyl monomers.
X. Studies on the inhibition and its mechanism of hydroxylamines compounds in free radical polymerization of styrene

AN 1991:164863 CAPLUS

DN 114:164863

OREF 114:27909a,27912a

TI Inhibiting effects of radical polymerization of vinyl monomers.
X. Studies on the inhibition and its mechanism of hydroxylamines compounds in free radical polymerization of styrene

AU Zhang, Ziyi; Li, Zhaolong; Wang, Xiaoyan; Lu, Zhizhen; Wang, Hanqing; Feng, Liangbo

CS Dep. Chem., Lanzhou Univ., Lanzhou, Peop. Rep. China

SO Gaofenzi Xuebao (1990), (2), 233-8

CODEN: GAXUE9; ISSN: 1000-3304

DT Journal

LA Chinese

AB The inhibiting effects of Et2NOH (I), iso-Pr2NOH (II), 2,2,6,6-tetramethyl-4-hydroxypiperidinehydroxylamine (III), 4-hydroxylmorpholine (IV), PhNOH, and Ph2NOH (V) on AIBN-initiated bulk polymerization of styrene were studied by dilatometric method. The induction period of polymerization, the rate of propagating polymerization, the mol. weight of polystyrene, the retarding coefficient, and the inhibiting factor were determined. The inhibiting efficiency of the substituted hydroxylamines was dependent on the rate and stability of the nitroxide radical formed in the reaction. The relative inhibiting reactivities of the hydroxylamines were in the following order: I > III > V > II > IV. The polymerization inhibiting mechanism of the hydroxylamines was discussed according to ESR data.

L21 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

TI An ESR study of nitroxide radicals produced in the radical polymerization of vinyl monomer

AN 1990:217575 CAPLUS

DN 112:217575

OREF 112:36757a,36760a

TI An ESR study of nitroxide radicals produced in the radical polymerization of vinyl monomer

AU Wang, Hanqing; Feng, Liangbo; Cai, Banghua; Zhang, Ziyi; Lu, Zhizhen; Li, Zhaolong

CS Lanzhou Inst. Chem. Phys., Chin. Acad. Sci., Lanzhou, Peop. Rep. China

SO Bopuxue Zazhi (1989), 6(3), 369-76

CODEN: BOZAE2; ISSN: 1000-4556

DT Journal

LA English

AB An ESR study showed that the radical polymerization of vinyl monomers was inhibited by the presence of hydroxylamines. The hydroxylamines abstracted radicals from growing polymer chains, and the resulting nitroxide radicals, which inhibited polymerization, were observed by ESR.

L21 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

TI Inhibiting popcorn polymer formation in butadiene-styrene copolymerization

AN 1966:508938 CAPLUS

DN 65:108938
 OREF 65:20334h,20335a
 TI Inhibiting popcorn polymer formation in butadiene-styrene
 copolymerization
 IN McCoy, George; Whiton, Alfred C.; Haines, Paul G.
 PA Pennsalt Chemicals Corp.
 SO 1 p.
 DT Patent
 LA Unavailable
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3265751		19660809	US 1964-419199 US	19641217 19641217
AB	A mixture of 30 ml. styrene, 1 ml. butadiene, and 0.5 g. of a popcorn polymer (seed from a styrene-butadiene rubber flash tank is activated before use by exposing it overnight to a 100-w. lamp) heated to 140°F. gave popcorn-polymer formation in 8-10 hrs. A similar mixture containing 0.05% N,N-diethylhydroxylamine (CA 61, 13509d) required 12 days and addition of 0.5% N-hydroxymorpholine inhibited polymer formation for 22 days.				

=> d cost

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NETWORK CHARGES	0.78	4.38
SEARCH CHARGES	0.00	200.92
DISPLAY CHARGES	23.61	55.51
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FULL ESTIMATED COST	29.85	291.10
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.60	-9.60

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	ENTRY	SESSION
FULL ESTIMATED COST	29.85	291.10
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-5.60	-9.60

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FILE 'CAPLUS' ENTERED AT 05:35:02 ON 15 OCT 2008

L1 5 HYDOXYLAMINE
 L2 37318 HYDOXYLAMINE
 L3 920661 INHIBITOR
 L4 2177 L2(L)L3
 L5 344209 CYCLIC
 L6 59 L4(L)L5
 L7 2218805 POLYMER?
 L8 0 L6 AND L07
 L9 5 L6 AND L7

FILE 'REGISTRY' ENTERED AT 05:53:45 ON 15 OCT 2008
 E N-HYDROXYPYRROLIDINE/CN

L10 1 E3

FILE 'CAPLUS' ENTERED AT 05:54:35 ON 15 OCT 2008

L11 1 L10 AND L3

FILE 'REGISTRY' ENTERED AT 05:57:04 ON 15 OCT 2008
 E N-HYDROXYPIPERIDINE/CN

L12 1 E3

FILE 'CAPLUS' ENTERED AT 05:57:45 ON 15 OCT 2008

L13 155 L12
 L14 17 L3 AND L13
 L15 11 L3(L)L13

FILE 'REGISTRY' ENTERED AT 06:08:55 ON 15 OCT 2008

L16 STRUCTURE UPLOADED
 L17 23 SEARCH L16 SSS SAM
 L18 2547 SEARCH L16 SSS FULL
 SAVE TEMP L18 MASTERSET/A

FILE 'CAPLUS' ENTERED AT 06:10:43 ON 15 OCT 2008

L19 1639 L18
 L20 75 L3(L)L19
 L21 9 L7 AND L20

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L# LIST L1-L21 HAS BEEN SAVED AS 'HOAMINESRCH/L'

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	ENTRY 30.81	SESSION 292.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.60	-9.60

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NEWS 15	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
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NEWS 18	OCT 07	Multiple databases enhanced for more flexible patent number searching
NEWS 19	OCT 22	Current-awareness alert (SDI) setup and editing enhanced
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NEWS 21	OCT 24	CHEMLIST enhanced with intermediate list of pre-registered REACH substances

NEWS 22 NOV 21 CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present

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NEWS 24 NOV 26 MEDLINE year-end processing temporarily halts availability of new fully-indexed citations

NEWS 25 NOV 26 CHEMSAFE now available on STN Easy

NEWS 26 NOV 26 Two new SET commands increase convenience of STN searching

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ENTRY

SESSION

FULL ESTIMATED COST

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0.21

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e hydroxyazocan/cn

E1	1	HYDROXYATRAZINE HYDROLASE (BETA GROUP PROTEOBACTERIUM CDB21 STRAIN CDB21 GENE ATZB)/CN
E2	1	HYDROXYAURATE(1-)/CN
E3	0 -->	HYDROXYAZOCAN/CN
E4	1	HYDROXYBALCHANOLIDE/CN
E5	1	HYDROXYBEEERINE/CN
E6	1	HYDROXYBEHENIC ACID/CN
E7	1	HYDROXYBENZALDEHYDE/CN
E8	1	HYDROXYBENZALDEHYDE DEHYDROGENASE (ACINETOBACTER BAUMANNII S TRAIN ATCC 17978)/CN
E9	1	HYDROXYBENZALDEHYDE DEHYDROGENASE (ACINETOBACTER STRAIN ADP1 GENE HCAB)/CN
E10	1	HYDROXYBENZALDEHYDE OXIME/CN
E11	1	HYDROXYBENZALDEHYDE-PHENOL COPOLYMER/CN
E12	1	HYDROXYBENZAMIDE/CN

=> e N-hydroxyazocan/cn

E1	1	N-HYDROXYASPARTIC ACID/CN
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E3	0 -->	N-HYDROXYAZOCAN/CN
E4	1	N-HYDROXYBENZAMIDE/CN
E5	1	N-HYDROXYBENZAMIDE POTASSIUM SALT/CN
E6	1	N-HYDROXYBENZAMIDINE/CN
E7	1	N-HYDROXYBENZANILIDE/CN
E8	1	N-HYDROXYBENZENAMINE/CN
E9	1	N-HYDROXYBENZENAMINE HYDROCHLORIDE/CN
E10	1	N-HYDROXYBENZENAMINE MUTASE/CN
E11	1	N-HYDROXYBENZENEACETAMIDE MONOPOTASSIUM SALT/CN
E12	1	N-HYDROXYBENZENECARBOXIMIDAMIDE/CN

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E1	1	AZOBUTANE/CN
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E3	1 -->	AZOCAN/CN
E4	1	AZOCAN-1-AMINE/CN
E5	1	AZOCAN-2-ONE/CN
E6	1	AZOCANE/CN
E7	1	AZOCARD/CN
E8	1	AZOCARD BLACK EW/CN
E9	1	AZOCARD BLACK RW/CN
E10	1	AZOCARD BLUE 2B/CN
E11	1	AZOCARD BLUE 6B/CN
E12	1	AZOCARD BLUE BH/CN

=> e3

L1 1 AZOCAN/CN

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1121-92-2 REGISTRY
ED Entered STN: 16 Nov 1984
CN Azocine, octahydro- (CA INDEX NAME)

OTHER CA INDEX NAMES:
 CN Heptamethylenimine (6CI, 7CI)
 OTHER NAMES:
 CN 1-Azacyclooctane
 CN Azacyclooctane
 CN Azocan
 CN Azocane
 CN Octahydroazocine
 CN Perhydroazocine
 MF C7 H15 N
 CI COM
 LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
 CHEMCATS, CHEMLIST, CSChem, DETHERM*, EMBASE, GMELIN*, IFICDB, IFIPAT,
 IFIUDB, PS, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

388 REFERENCES IN FILE CA (1907 TO DATE)
 15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 388 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
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 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
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FILE COVERS 1907 - 1 Dec 2008 VOL 149 ISS 23
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=> l1

L2 388 L1

=> tempo

4732 TEMPO

62 TEMPOS

5 TEMPI

4 TEMPIS

L3 4782 TEMPO
(TEMPO OR TEMPOS OR TEMPI OR TEMPIS)

=> l2 and l3

L4 0 L2 AND L3

=> hydroxylamine

36182 HYDROXYLAMINE

3205 HYDROXYLAMINES

L5 37459 HYDROXYLAMINE
(HYDROXYLAMINE OR HYDROXYLAMINES)

=> l2 and l5

L6 5 L2 AND L5

=> d l6 1-5 ti

L6 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

TI Preparation of benzimidazoles as common ligand mimics

L6 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

TI Preparation and formulation of imidazoquinazoline derivatives as
cGMP-phosphodiesterase inhibitors

L6 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

TI Preparation of cyclic hexapeptide (RA-VII) derivatives as antitumor agents

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

TI Nucleophilicity towards a vinylic carbon atom: rate constants for the
addition of amines to the 1-methyl-4-vinylpyridinium cation in aqueous
solution

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN

TI 5-Aminoisoxazole derivatives and pharmaceutical preparations containing
them

=> inhibit?

L7 2092078 INHIBIT?

=> hydroxyindole

4175 HYDROXYINDOLE

610 HYDROXYINDOLES

L8 4445 HYDROXYINDOLE
(HYDROXYINDOLE OR HYDROXYINDOLES)

=> l7(l)l8

L9 657 L7(L)L8

=> radical
338777 RADICAL
179233 RADICALS
L10 412584 RADICAL
(RADICAL OR RADICALS)

=> 19(1)110
L11 7 L9(L)110

=> d 111 1-7 ti

L11 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
TI Synthesis and biological evaluation of novel angular fused
pyrrolocoumarins

L11 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
TI Modification of 5-Hydroxytryptophan-Evoked 5-Hydroxytryptamine formation
of guinea pig colonic mucosa by reactive oxygen species

L11 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
TI Examination of pineal indoles and 6-methoxy-2-benzoxazolinone for
antioxidant and antimicrobial effects

L11 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
TI Antioxidative and free radical-scavenging activities of pineal indoles

L11 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
TI 5-Hydroxy-3-ethylamino-2-oxindole is not formed in rat brain following a
neurotoxic dose of methamphetamine: evidence that methamphetamine does not
induce the hydroxyl radical-mediated oxidation of serotonin

L11 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
TI Mechanistic studies on dopamine β -monooxygenase catalysis:
N-dealkylation and mechanism-based inhibition by
benzylic-nitrogen-containing compounds. Evidence for a
single-electron-transfer mechanism

L11 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
TI Polycyclic phenols in alkaline solution: stable substrates for superoxide
dismutase?

=> d 111 4 ti fbib abs

L11 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
TI Antioxidative and free radical-scavenging activities of pineal indoles
AN 2001:135822 CAPLUS
DN 135:132015
TI Antioxidative and free radical-scavenging activities of pineal indoles
AU Ng, T. B.; Liu, F.; Zhao, L.
CS Department of Biochemistry, Faculty of Medicine, The Chinese University of
Hong Kong, Shatin, Hong Kong
SO Journal of Neural Transmission (2000), 107(11), 1243-1251
CODEN: JNTRF3; ISSN: 1435-1463
PB Springer-Verlag Wien
DT Journal
LA English
AB The antioxidant action, free radical-scavenging activity, and
pro-oxidant effect of pineal indoles were studied. Serotonin,
5-hydroxytryptophol, 5-methoxytryptophol, and 5-methoxytryptamine potently
inhibited lipid peroxidation in rat brain, liver, and kidney
homogenates and hemolysis of rat erythrocytes. 5-Methoxyindole-3-acetic

acid and 5-hydroxyindole-3-acetic acid potently suppressed superoxide radical formation. 5-Hydroxytryptophol and 5-hydroxyindole-3-acetic acid inhibited hydroxyl radical generation. Serotonin, 5-hydroxytryptophol, and 5-hydroxyindole-3-acetic acid exhibited a pro-oxidant action in the bleomycin-Fe system. This study demonstrated that 5-methoxytryptamine, among the various pineal indoles tested, exhibited the most potent antioxidant action and was devoid of pro-oxidant effect. Serotonin, 5-hydroxytryptophol, and 5-methoxytryptophol also had high antioxidative activity. By comparison, melatonin had a lower antioxidant potency.

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> File reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	22.15	30.43
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.80	-0.80

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STRUCTURE FILE UPDATES: 30 NOV 2008 HIGHEST RN 1077629-73-2
DICTIONARY FILE UPDATES: 30 NOV 2008 HIGHEST RN 1077629-73-2

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<http://www.cas.org/support/stngen/stdnoc/properties.html>

```
=> e 1-hydroxy-2,3,-dihydroindole/cn
E1      1      1-HYDROXY-2,2-DIMETHYLDECANE/CN
E2      1      1-HYDROXY-2,2-DIMETHYLPROPYL RADICAL/CN
E3      0 --> 1-HYDROXY-2,3,-DIHYDROINDOLE/CN
E4      1      1-HYDROXY-2,3,4,5,6-PENTACHLOROBENZENE/CN
E5      1      1-HYDROXY-2,3,4,5,8-PENTAMETHYL-10(9H)-ANTHRACENONE/CN
E6      1      1-HYDROXY-2,3,4,5,8-PENTAMETHYL-9,10-ANTHRAQUINONE/CN
E7      1      1-HYDROXY-2,3,4,5-TETRAMETHOXYXANTHONE/CN
E8      1      1-HYDROXY-2,3,4,7-TETRAMETHOXYXANTHONE/CN
E9      1      1-HYDROXY-2,3,4,9-TETRAMETHYL-10-(9H)ANTHRACENONE/CN
E10     1      1-HYDROXY-2,3,4-TRIMETHOXYACRIDAN-9-ONE/CN
E11     1      1-HYDROXY-2,3,4-TRIMETHOXYBENZENE/CN
E12     1      1-HYDROXY-2,3,4-TRIMETHYL-10(9H)-ANTHRACENONE/CN
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```
=> e 1-hydroxydihydroindole/cn
E1      1      1-HYDROXYDIBENZOFURAN-4,6-DICARBOXYLIC ACID DIMETHYL ESTER/CN
E2      1      1-HYDROXYDIBENZOTHIOPHENE/CN
E3      0 --> 1-HYDROXYDIHYDROINDOLE/CN
E4      1      1-HYDROXYDODECANE/CN
E5      1      1-HYDROXYDODECANE-1,1-DIPHOSPHONATE AMMONIUM SALT/CN
E6      1      1-HYDROXYDODECANE-1,1-DIPHOSPHONIC ACID/CN
E7      1      1-HYDROXYEPIACORONE/CN
E8      1      1-HYDROXYERGOCALCIFEROL/CN
E9      1      1-HYDROXYESTRA-1,3,5(10)-TRIEN-17B-OL/CN
E10     1      1-HYDROXYESTRADIOL/CN
E11     1      1-HYDROXYESTRIOL/CN
E12     1      1-HYDROXYESTRONE/CN
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=> e 1-hydroxyindole/cn
E1      1      1-HYDROXYINDAN-4-CARBOXYLIC ACID/CN
E2      1      1-HYDROXYINDENE/CN
E3      1 --> 1-HYDROXYINDOLE/CN
E4      1      1-HYDROXYINDOLE-3-CARBOXALDEHYDE/CN
E5      1      1-HYDROXYINOSINE/CN
E6      1      1-HYDROXYISATIN/CN
E7      1      1-HYDROXYISOBUTYLIDENEDIPHOSPHONIC ACID/CN
E8      1      1-HYDROXYISOOBACUNOIC ACID METHYL ESTER/CN
E9      1      1-HYDROXYISOPROPYL ACETATE/CN
E10     1      1-HYDROXYISOPROPYL BENZOATE/CN
E11     1      1-HYDROXYISOQUINOLINE/CN
E12     1      1-HYDROXYISOQUINOLINE 2-OXIDE/CN
```

```
=> e3
L12      1 1-HYDROXYINDOLE/CN
```

```
=> e 1-hydroxypyrrole/cn
E1      1      1-HYDROXYPYRIDINIUM TRICHLOROACETATE/CN
E2      1      1-HYDROXYPYRIDO(3,2-A)ANTHRACENE-2-CARBOXYLIC ACID/CN
E3      1 --> 1-HYDROXYPYRROLE/CN
E4      1      1-HYDROXYPYRROLIDINE/CN
E5      1      1-HYDROXYPYRROLIZIDINE/CN
E6      1      1-HYDROXYQUINALDINIUM BROMIDE/CN
E7      1      1-HYDROXYQUINALDINIUM CHLORIDE/CN
E8      1      1-HYDROXYQUINALDINIUM IODIDE/CN
E9      1      1-HYDROXYQUINOLIZINIUM BROMIDE/CN
E10     1      1-HYDROXYQUINOLIZINIUM BROMIDE, ACETATE/CN
E11     1      1-HYDROXYQUINOLIZINIUM HYDROXIDE, INNER SALT/CN
E12     1      1-HYDROXYQUINOLIZINIUM NITRATE/CN
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=> e3
L13      1 1-HYDROXYPYRROLE/CN
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```
=> d 113
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```
L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 56962-81-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Pyrrole, 1-hydroxy- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Pyrrole, 1-hydroxy- (ICI)
OTHER NAMES:
CN 1-Hydroxypyrrole
CN N-Hydroxypyrrole
MF C4 H5 N O
CI COM
```

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

18 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
18 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e 1-hydroxydihydropyrrole/cn

E1	1	1-HYDROXYDIBENZOFURAN-4,6-DICARBOXYLIC ACID DIMETHYL ESTER/CN
		N
E2	1	1-HYDROXYDIBENZOTHIOPHENE/CN
E3	0 -->	1-HYDROXYDIHYDROPYRROLE/CN
E4	1	1-HYDROXYDODECANE/CN
E5	1	1-HYDROXYDODECANE-1,1-DIPHOSPHONATE AMMONIUM SALT/CN
E6	1	1-HYDROXYDODECANE-1,1-DIPHOSPHONIC ACID/CN
E7	1	1-HYDROXYEPIACORONE/CN
E8	1	1-HYDROXYERGOCALCIFEROL/CN
E9	1	1-HYDROXYESTRA-1,3,5(10)-TRIEN-17B-OL/CN
E10	1	1-HYDROXYESTRADIOL/CN
E11	1	1-HYDROXYESTRIOL/CN
E12	1	1-HYDROXYESTRONE/CN

=> e 1-hydroxypyrrolidine/cn

E1	1	1-HYDROXYPYRIDO(3,2-A)ANTHRACENE-2-CARBOXYLIC ACID/CN
E2	1	1-HYDROXYPYRROLE/CN
E3	1 -->	1-HYDROXYPYRROLIDINE/CN
E4	1	1-HYDROXYPYRROLIZIDINE/CN
E5	1	1-HYDROXYQUINALDINIUM BROMIDE/CN
E6	1	1-HYDROXYQUINALDINIUM CHLORIDE/CN
E7	1	1-HYDROXYQUINALDINIUM IODIDE/CN
E8	1	1-HYDROXYQUINOLIZINIUM BROMIDE/CN
E9	1	1-HYDROXYQUINOLIZINIUM BROMIDE, ACETATE/CN
E10	1	1-HYDROXYQUINOLIZINIUM HYDROXIDE, INNER SALT/CN
E11	1	1-HYDROXYQUINOLIZINIUM NITRATE/CN
E12	1	1-HYDROXYQUINOLIZINIUM PICRATE/CN

=> e3

L14 1 1-HYDROXYPYRROLIDINE/CN

=> d l14

L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 5904-62-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN Pyrrolidine, 1-hydroxy- (CA INDEX NAME)

OTHER NAMES:

CN 1-Hydroxypyrrolidine

CN 1-Pyrrolidinol

CN N-Hydroxypyrrolidine

CN NSC 71874

MF C4 H9 N O
 CI COM
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, TOXCENTER, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
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 51 REFERENCES IN FILE CAPLUS (1907 TO DATE)
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=> 114
 L15

51 L14

=> d his

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FILE 'REGISTRY' ENTERED AT 11:55:18 ON 01 DEC 2008

E HYDROXYAZOCAN/CN
E N-HYDROXYAZOCAN/CN
E AZOCAN/CN

L1 1 E3

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L2 388 L1
L3 4782 TEMPO
L4 0 L2 AND L3
L5 37459 HYDROXYLAMINE
L6 5 L2 AND L5
L7 2092078 INHIBIT?
L8 4445 HYDROXYINDOLE
L9 657 L7(L)L8
L10 412584 RADICAL
L11 7 L9(L)L10

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E 1-HYDROXY-2,3,-DIHYDROINDOLE/CN
E 1-HYDROXYDIHYDROINDOLE/CN
E 1-HYDROXYINDOLE/CN

L12 1 E3
E 1-HYDROXYPYRROLE/CN

L13 1 E3
E 1-HYDROXYDIHYDROPYRROLE/CN
E 1-HYDROXYPYRROLIDINE/CN

L14 1 E3

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L15 51 L14

=> 17 and 1145

L145 NOT FOUND

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=> 17 and 115

L16 2 L7 AND L15

=> d 116 1-2ti

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ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
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IND ----- Indexing data

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 PATS ----- PI, SO
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 IBIB ----- BIB, indented with text labels
 IMAX ----- MAX, indented with text labels
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 SIBIB ----- IBIB, no citations

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 containing hit terms
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 HITSTR ----- HIT RN, its text modification, its CA index name, and
 its structure diagram
 HITSEQ ----- HIT RN, its text modification, its CA index name, its
 structure diagram, plus NTE and SEQ fields
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and
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 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
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=> d l16 1-2 ti

L16 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Use of cyclic hydroxylamines as polymerization inhibitors

 L16 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
 TI Preparation of (biphenylmethyl)quinazolinones as angiotensin II receptor blockers.

=> logoff hold

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	ENTRY	SESSION
FULL ESTIMATED COST	1.68	54.32

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